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Amendments to the Claims:

The following listing of claims will replace all prior versions and listings of claims in the application.

Listing of Claims:

- 1.-2. (Canceled)
- 3. (Currently amended) The vaccine of claim-1-A vaccine comprising at least one isolated microorganism or living or dead cells thereof wherein the microorganism is selected from the group consisting of: Streptococcus bovis [[(]]strain[[:]] SbR1[[)]] [[(]]Accession number: NM99/04455[0]), Streptococcus equinus [[(]]strain[[:]] SER1[0]] [[(]]Accession number: NM99/04456(0)], Streptococcus equinus [[(]]strain[[:]] SER2[[)]] [[(]]Accession number: NM99/04457[D]], Selenomonas ruminantium [[0]strain[[:]] SRR1[D]] [[0]Accession number: NM99/04458[D]], Selenomonas ruminantium [[([]strain[[:]] SRR3[[)]] [[(D]Accession number: NM99/04460[D]], Clostridium vitulinus [[(I]strain[I:]] LVR3[D]] [[(I]Accession number: NM99/04461[[]], Clostridium vitulinus [[(]]strain[[:]] LVR4[D]] [[(]]Accession number: NM99/04462[[)]), Prevotella isolates LAB01 [[(])Accession number: NM00/12630[[)]] and LABO3 [[(]]Accession number: NM00/12632[[)], Bacteroides isolates LABO7 [[(]]Accession number: NM00/12636[[]]] and LAB05 [[(]]Accession number: NM00/12634[[]], non-dextran slime producing Streptococcus isolate LABO4 [[(]]Accession number: NMOO/12633[[)]] and non-slime producing factic acid bacterial isolates LABO2 [[(]]Accession number: NM00/12631[[)]], LAB06 [[([]Accession number: NM00/12635[])] and LAB08 [[(]]Accession number: NM00/12637[D]].
- 4. (Canceled)
- 5. (Currently Amended) The vaccine of claim-13, wherein said dead cells are intact cells.
- 6. (Canceled)
- 7. (Canceled)

- 8. (Currently Amended) The vaccine of claim 13, wherein the vaccine is formulated for administration via intramuscular, subcutaneous, or inhalation, topical or other parenteral routes.
- 9. (Currently amended) A pharmaceutical composition comprising the vaccine composition of claim 3 and a pharmaceutically acceptable carrier, adjuvant and/or diluent-and at least one isolated microorganism or living or dead cells thereof, wherein said microorganism, when living, is capable of producing lactic acid within the gut of a monogastric, herbivore or ruminant animal, wherein said microorganism is selected from the group consisting of: Clostridium species, Prevetella species Bacteroides isolates LABO7 [[(]]Accession number: NM00/12636[[]] and LABO5 [[(]]Accession number: NM00/12634[[]], Enterococcus species, Selenomonas ruminantium, non dextran slime producing Streptococcus equinus, Streptococcus bovis [[(]]strain[[:]] SbR1[[]]] [[(]]Accession number: NM99/04455[[]] and non-slime producing lactic acid bacterial isolates, wherein said pharmaceutical composition is effective for the prevention of lactic acidosis in said monogastric, herbivore, or ruminant animal.

10.-14. (Canceled)

- 15. (Previously presented) The pharmaceutical composition according to claim 9, further comprising at least one cytokine.
- 16. (Currently Amended) A method for inducing an immune response against lactic acidosis in a vertebrate, comprising administering intramuscularly, subcutaneously, or via inhalation to said vertebrate an immunologically effective amount of the vaccine in accordance with claim 13, or a pharmaceutical composition in accordance with claim 10.
- 17. (Previously presented) A method according to claim 16, further comprising administering at least one cytokine.
- 18. (Currently Amended) A method for inducing an immune response against lactic acidosis in a vertebrate, comprising administering to said vertebrate an immunologically effective amount of the pharmaceutical composition according to claim 9the vaccine according to claim 1.

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- 19. (Currently Amended) A method for the treatment and/or prophylaxis of lactic acidosis in a vertebrate in need of said treatment and/or prophylaxis, wherein said method comprises administering intramuscularly, subcutaneously, or via inhalation to said vertebrate a therapeutically effective amount of the vaccine in accordance with claim—13, or a pharmaceutical composition in accordance with claim—10.
- 20. (Previously presented) The method of claim 19, wherein said method further comprises the administration of an active agent, wherein said active agent is selected from the group consisting of: antibiotics, enzyme preparations, clay preparations, compounds which slow the digesta flow, prebiotics and probiotics.
- 21. (Currently Amended) A method for the treatment and/or prophylaxis of lactic acidosis in a vertebrate in need of said treatment and/or prophylaxis, wherein said method comprises administering intramuscularly, subcutaneously, or via inhalation to said vertebrate a therapeutically effective amount of the vaccine of claim 1 a pharmaceutical composition according to claim 9.

22.-51. (Canceled)

(Currently amended) An isolated culture of at least one microorganism selected from the group consisting of: Streptococcus bovis [[(]]strain[[:]] SbR1[[)]] [[(]]Accession number: NM99/04455[[)]], Streptococcus equinus [[(]]strain[[:]] SER1[[)]] [[(]]Accession number: NM99/04456[[)]], Streptococcus equinus [[(]]strain[[:]] SER2[[)]] [[(]]Accession number: NM99/04457[[)]], Selenomonas ruminantium [[(]]strain[[:]] SRR1[[)]] [[(]]Accession number: NM99/04458[[)]], Selenomonas ruminantium [[(]]strain[[:]] SRR3[[)]] [[(]]Accession number: NM99/04460[[)]], Clostridium vitulinus [[(]]strain[[:]] LVR3[[)]] [[(]]Accession number: NM99/04461[[)]], Clostridium vitulinus [[(]]strain[[:]] LVR4[[)]] [[(]]Accession number: NM00/12630[[)]] and LAB03 [[(]]Accession number: NM00/12636[[)]] and LAB05 [[(]]Accession number: NM00/12634[[)]], non-dextran slime producing Streptococcus isolate LAB04 [[(]]Accession number: NM00/12633[[])] and

non-slime producing lactic acid bacterial isolates LABO2 [[(]]Accession number: NM00/12631[[]], LABO6 [[(]]Accession number: NM00/12635[[]]] and LABO8 [[(]]Accession number: NM00/12637[[]]].

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